

MONTANA Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Montana

Year	Coal	Natural Gas ^a	Petroleum							Hydro-electric Power ^{f,g}	Biomass		Geo-thermal ^g	Solar ^{g,i}	Retail Electricity Sales	Net Energy ^{g,k}	Electrical System Energy Losses ^l	Total ^{g,k}
			Distillate Fuel Oil	HGL ^b	Jet Fuel ^c	Motor Gasoline ^d	Residual Fuel Oil	Other ^e	Total		Wood and Waste ^{g,h}	Losses and Co-products ⁱ			Million Kilowatt-hours			
Thousand Barrels																		
1960	67	55	4,898	737	265	6,922	2,063	4,234	19,118	0	--	--	--	--	4,575	--	--	--
1970	40	85	4,826	1,326	649	9,262	1,243	5,338	22,644	0	--	--	--	--	8,750	--	--	--
1980	168	57	7,450	1,806	920	10,416	4,025	4,585	29,203	0	--	--	--	--	10,825	--	--	--
1990	277	43	7,217	1,740	708	10,328	218	5,518	25,729	0	--	--	--	--	13,125	--	--	--
2000	169	68	8,028	1,324	747	11,559	1	6,596	28,255	0	--	--	--	--	14,580	--	--	--
2001	162	65	8,474	1,400	756	11,640	2	4,661	26,935	0	--	--	--	--	11,447	--	--	--
2002	95	69	8,120	1,502	768	11,871	39	5,704	28,003	0	--	--	--	--	12,831	--	--	--
2003	95	68	7,925	2,151	832	11,846	6	4,859	27,620	0	--	--	--	--	12,825	--	--	--
2004	200	67	9,955	2,384	1,008	11,991	42	5,426	30,807	0	--	--	--	--	12,957	--	--	--
2005	235	68	11,447	2,455	1,112	11,770	106	5,343	32,235	0	--	--	--	--	13,479	--	--	--
2006	229	73	12,207	2,409	1,045	11,960	125	6,393	34,139	0	--	--	--	--	13,815	--	--	--
2007	112	73	13,859	2,993	1,026	12,079	0	6,912	36,869	0	--	--	--	--	15,532	--	--	--
2008	102	76	12,855	2,989	832	11,626	0	6,337	34,638	0	--	--	--	--	15,326	--	--	--
2009	70	75	11,514	2,586	792	11,844	59	5,816	32,611	0	--	--	--	--	14,354	--	--	--
2010	82	71	9,837	2,349	928	11,906	1	R 5,649	R 30,671	0	--	--	--	--	13,771	--	--	--
2011	90	74	10,525	2,530	919	11,735	4	R 6,046	R 31,759	0	--	--	--	--	13,788	--	--	--
2012	243	68	10,014	2,071	936	11,887	(s)	R 5,995	R 30,903	0	--	--	--	--	13,863	--	--	--
2013	263	72	10,529	2,003	875	12,144	1	R 5,651	R 31,203	0	--	--	--	--	14,045	--	--	--
2014	282	72	9,773	2,297	974	12,279	3	R 5,375	R 30,701	0	--	--	--	--	14,102	--	--	--
2015	281	R 68	8,448	2,338	953	R 12,771	0	R 5,655	R 30,166	0	--	--	--	--	14,207	--	--	--
2016	263	70	8,682	2,098	952	12,976	0	5,637	30,346	0	--	--	--	--	14,101	--	--	--
Trillion Btu																		
1960	1.5	57.3	28.5	2.9	1.4	36.4	13.0	24.9	107.0	0.0	7.5	NA	NA	NA	15.6	188.9	38.6	227.5
1970	0.8	88.0	28.1	5.1	3.6	48.7	7.8	32.8	126.0	0.0	5.9	NA	NA	NA	29.9	250.6	72.2	322.8
1980	3.2	57.1	43.4	6.8	5.2	54.7	25.3	28.1	163.4	0.0	10.9	NA	NA	NA	36.9	271.6	88.7	360.3
1990	5.1	43.9	42.0	6.5	4.0	54.3	1.4	34.0	142.1	0.0	10.9	0.1	0.1	(s)	44.8	247.0	100.5	347.6
2000	2.7	69.4	46.7	5.0	4.2	60.3	(s)	41.0	157.2	0.0	15.3	(s)	0.3	(s)	49.7	294.7	112.8	407.5
2001	2.7	66.3	49.3	5.3	4.3	60.7	(s)	28.5	148.1	0.0	11.9	(s)	0.3	(s)	39.1	268.3	87.6	355.9
2002	1.4	70.9	47.2	5.7	4.4	61.9	0.2	34.9	154.2	0.0	11.0	(s)	0.3	(s)	43.8	281.6	97.6	379.1
2003	1.4	69.8	46.1	8.2	4.7	61.6	(s)	29.3	150.0	0.0	12.0	(s)	0.3	(s)	43.8	277.2	99.9	377.1
2004	3.3	68.4	57.9	9.1	5.7	62.4	0.3	33.2	168.5	0.0	12.5	0.0	0.3	(s)	44.2	297.2	101.9	399.1
2005	3.9	70.9	66.6	9.3	6.3	61.2	0.7	32.5	176.6	0.0	17.8	0.0	0.3	(s)	46.0	315.6	104.0	419.6
2006	3.8	74.6	70.8	9.1	5.9	62.1	0.8	39.2	188.0	0.0	17.1	0.0	0.3	(s)	47.1	331.0	108.2	439.2
2007	1.7	74.0	80.2	11.3	5.8	62.3	0.0	41.7	201.3	0.0	20.0	0.0	0.3	(s)	53.0	350.2	119.9	470.1
2008	1.7	77.1	74.3	11.4	4.7	59.6	0.0	38.2	188.2	0.0	18.5	0.0	0.3	(s)	52.3	338.1	118.9	456.9
2009	1.1	76.0	66.6	9.9	4.5	60.4	0.4	36.0	177.8	0.0	12.7	0.0	0.3	(s)	49.0	316.9	110.4	427.2
2010	1.3	72.2	56.8	9.0	5.3	60.5	(s)	R 35.2	166.8	0.0	R 12.9	0.0	0.3	(s)	47.0	R 300.4	101.1	R 401.5
2011	1.4	74.7	60.8	9.7	5.2	59.5	(s)	37.8	R 173.0	0.0	R 4.8	0.0	0.4	(s)	47.0	R 301.4	101.4	R 402.7
2012	4.3	69.7	57.8	7.9	5.3	60.2	(s)	37.4	R 168.6	0.0	R 4.5	0.0	0.3	0.1	47.3	R 294.8	101.0	R 395.8
2013	4.5	74.9	60.7	7.7	5.0	61.5	(s)	35.2	R 170.0	0.0	R 5.4	0.0	0.3	0.1	47.9	R 303.2	103.5	R 406.7
2014	4.9	74.3	56.4	8.8	5.5	62.1	(s)	R 33.5	R 166.4	0.0	R 5.8	0.0	0.3	0.1	48.1	R 299.9	105.6	R 405.5
2015	5.0	R 70.7	48.7	9.0	5.4	R 64.6	0.0	R 35.2	R 162.9	0.0	R 4.9	0.0	0.3	0.1	48.5	R 292.5	102.4	R 394.9
2016	4.7	72.0	50.1	8.0	5.4	65.6	0.0	35.0	164.2	0.0	4.4	0.0	0.3	0.1	48.1	293.9	100.6	394.5

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.
^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."
^d Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
^f Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
ⁱ Losses and co-products from the production of fuel ethanol.
^j Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.

^k Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.
^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.
 -- = Not applicable. NA = Not available.
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
 Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.